El-Moasser Final Examinations

Model Exam 1

1 **(A) Choose the correct answer :**

1. Plants take .... from the air to make its own food.
   a. water b. oxygen gas
   c. carbon dioxide gas d. sugar
2. A community that includes living organisms and non-living things is known as ....
   a. digestive system. b. respiratory system.
   c. ecosystem. d. vascular system.
3. When the marine habitats are destroyed, the number of living organisms in their food webs is ....
   a. increased. b. decreased. c. not changed. d. doubled.
4. Some liquids come out of a .... during its eruption.
   a. star b. wooden piece c. volcano d. plastic piece

(B) Give a reason for the following :

The roof of desert home is made of strong stones.

....

2 **(A) Put (✓) or (X) :**

1. We can describe a solid matter by its color and shape. ( )
2. The mass and properties of oil will change when mixing it with vinegar. ( )
3. Particles of all matter are in a continuous motion. ( )
4. Xylem helps the plant to get water from the soil. ( )

(B) What happens if ... ?

A plant is placed in a dark place for many days.

....

3 **(A) Complete the following sentences :**

1. Throwing plastic garbage and waste materials into a river causes water ....
2. Both .... organisms and .... organisms cannot produce their own food.
3. Without .... in the leaves of plants, gases can't move in or out of the plant.
4. Melting of wax is a .... change, while burning of wood is a .... change.

(B) Cross out the odd word :

1. Oil – Milk – Water – Wood. (.........................)
2. Roots – Stems – Leaves – Sunlight. (.........................)

4 (A) Correct the underlined words :

1. Chlorophyll in plant's roots absorbs energy from the sunlight. (.........................)
2. Coconut seeds disperse by wind. (.........................)
3. Flowers of plants produce root hairs that help the plant to reproduce. (.........................)
4. Respiration process helps the plant to make its own food. (.........................)

(B) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Carbon dioxide	a. is not a matter.
2. Sand	b. is a liquid matter.
3. Gasoline	c. is a gas matter.
	d. is a solid matter.

1. .... 2. .... 3. ....

Model Exam 2

1 (A) Complete the following sentences :

1. When we heat an ice cream, it .... and becomes liquid.
2. Digestion of food forms a new .... which has new ....
3. We can use .... in making hammers because it is .... and strong.
4. You can use a .... to measure the mass of matter, while you can use a .... to measure its temperature.

(B) What happens to ... ?

The speed of particles of an ice cube when it is exposed to the Sun.

....

....

2 (A) Write the scientific term of each of the following :

1. It is the number of organisms of one type of species living in an area. (.........................)
2. The animal that is eaten by another animal. (.........................)
3. The liquid substance that plants, animals and human need to survive. (.........................)
4. A part of the plant that fix it in the soil. (.........................)

(B) Give a reason for the following :

Human needs to eat some animals and plants.

....

....

3 (A) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Condensation	a. is the change of water from solid state to liquid state.
2. Melting	b. is the change of water from gas state to solid state.
3. Freezing	c. is the change of water from gas state to liquid state.
4. Evaporation	d. is the change of water from liquid state to gas state.
	e. is the change of water from liquid state to solid state.

1. .... 2. .... 3. .... 4. ....

(B) Correct the underlined words :

1. Due to rising of water temperature, coral reefs turn completely into <u>green</u>. (........................)
2. Tree trunks are <u>climb</u> stems. (........................)

4 (A) Form a food chain by using the given words between brackets, then complete the sentences below :

(Duck – Grasses – Fox)

(1) .... → (2) .... → (3) ....

a. This food chain doesn't contain .... consumer.

b. Living organisms that break down materials of dead organisms in this food chain are called ....

c. Grasses change the .... energy of the Sun into .... energy during photosynthesis process.

(B) Cross out the odd word :

1. Carbon dioxide gas – Water – Oxygen gas – Sunlight. (........................)
2. Wood – Iron – Oxygen – Plastic. (........................)

Model Exam 3

1 (A) Put (✓) or (✗) :

1. Air enters plants through roots. ( )
2. People and engineers must share scientists in restoration ecology. ( )
3. If coral reefs are destroyed, many marine food chains will be destroyed. ( )
4. Vinegar and frozen vegetables have definite shape. ( )

(B) What happens if … ?

A magnet is put close to an iron nail and a plastic spoon.

....

....

2 (A) Complete the following sentences using these words :

(extinction – overfishing – shelter – toxic –predator)

1. Healthy natural resources include clean air, healthy food, water and suitable ....
2. The human activity that directly decreases the marine population is known as ....
3. Habitat loss does not only cause a decrease in the marine population but also it is one of the main reasons for ....
4. When a sea turtle eats a jellyfish, this means that the sea turtle is a .... living organism.
5. Plastic waste materials are very harmful to marine organisms, because they are .... and sharp.

(B) Correct the underlined words :

1. There are tiny holes on the <u>stem</u> to allow gases passes into the plant. (........................)
2. Plant's <u>leaves</u> help it to be fixed in the soil. (........................)

3 (A) Write the scientific term of each of the following :

1. It is a process by which a matter is changed from solid to liquid state. (........................)
2. The property of matter which is measured by the measuring cup. (........................)
3. A model of the whole world that is made in the shape of a large ball. (........................)
4. They are consumers which feed on secondary consumers. (........................)

(B) Give a reason for the following :

Ice is turned into water when it is placed in a warm room.

....

....

4 (A) Choose the correct answer :

1. The primary source of energy for all living organisms on the Earth, is ....
   a. the Sun. b. green plants.
   c. glucose sugar. d. photosynthesis process.
2. The marine food web usually started with ....
   a. clam. b. algae. c. zooplankton. d. parrotfish.
3. The movement of particles of water are slower than that of ....
   a. wood. b. plastic. c. air. d. gold.
4. Steel is used in making hammers, because it is ....
   a. flexible. b. smooth. c. hard. d. transparent.

(B) Adam plants a flowering plant in a pot, He put this plant in a soil rich in nutrients and water it everyday, he used to cover this pot everyday with a carton box to hide it from his brother, after many days, do you think that this plant will survive ? And why :

a. Yes, because it has nutrients and water.
b. No, because it needs air and light.
c. No, because plant doesn't need water and soil.
d. Yes, because it can survive without sunlight.

Model Exam 4

1 (A) Write the scientific term of each of the following :

1. The process of producing new plants. (..........................)
2. A group of living organisms that can produce their own food. (..........................)
3. Flying living organisms that build their nests on the top of mountain cliffs and dive deeply into the sea to eat. (..........................)
4. The state of matter that has definite volume and shape. (..........................)

(B) Give a reason for the following :

Balloons and blimps filled with helium always rise up in the air.

....

....

2 (A) Put (✓) or (✗) :

1. Healthy habitats provide living organisms with clean air, healthy food and water. ( )
2. When particles of a matter absorb thermal energy, they move slower. ( )
3. Dead organisms don't need energy. ( )
4. From the chemical properties of helium is that it is not flammable. ( )

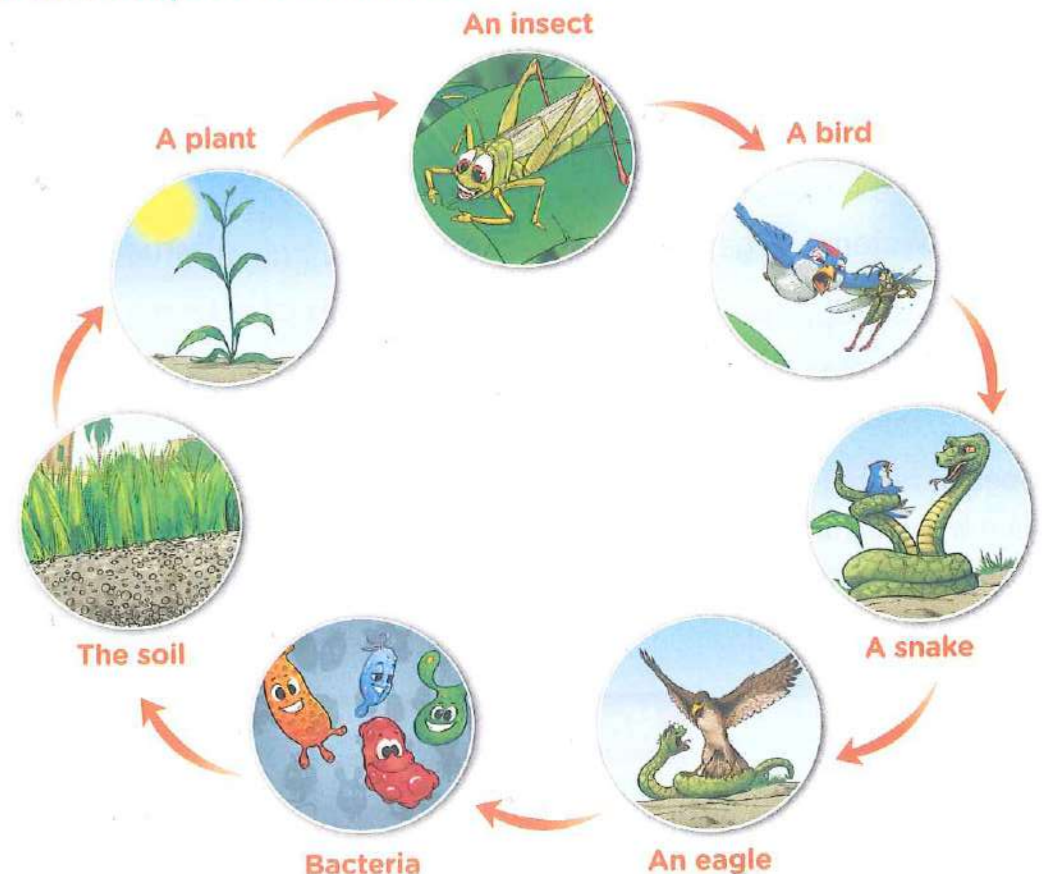
(B) What happens if ... ?

Plants have no stems.

....

....

3 (A) Study the following figure, that shows the recycling nutrients back into the soil, then complete the sentences below :



1. Photosynthesis process is done by .... , so it is a producer.
2. Decomposition process is done by .... , so they are decomposers.
3. The insect is a .... consumer, because it eats the plant.
4. The large meat-eating animal is the ....
5. When the eagle dies, its nutrients return back to the soil with the help of ....

(B) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Sunlight	a. is absorbed by the roots of the plant.
2. Soil	b. is necessary for plant's growth.
3. Water	c. is not a basic need for plant growth.
4. Oxygen	d. a gas which is produced during photosynthesis process.
	e. a gas which is the plant uses during photosynthesis process.

1. .... 2. .... 3. .... 4. ....

4 (A) Choose the correct answer :

1. When the plant seed begins to grow and makes sprouts this process is called ....
   a. respiration. b. germination. c. absorption. d. reproduction.
2. Decomposers always .... the soil.
   a. pollute b. damage c. benefit d. harm
3. The amount of energy that transfers between living organisms in a food web, is ....
   a. 10% b. 90% c. 30% d. 100%
4. We can use a model to study very large things such as ....
   a. solar system. b. germs. c. microbes. d. viruses.

(B) Look at the opposite figure, then put (✓) or (✗) :

1. Label (1) refers to a matter in liquid state. ( )
2. Label (2) refers to a matter in solid state. ( )
3. Label (3) refers to a matter that its shape and volume don't change. ( )
4. Particles of matter (1) move slower than particles of matter (3). ( )

Model Exam 5

1 (A) Choose the correct answer :

1. The volume of one liter of water has a mass of ....
   a. one gram. b. one kilogram.
   c. one milliliter. d. one cubic centimeter.
2. When the water is heated, its particles ....
   a. move slower. b. move faster.
   c. move with the same speed. d. do not move.

3. Salt can be separated by .... of salty water.
   a. melting b. evaporation c. freezing d. condensation
4. In plant's leaves, light energy is converted into .... energy during photosynthesis.
   a. sound b. electric c. chemical d. kinetic

(B) Study the following figures that represent particles of three states of matter, then put (✓) or (✗) :

(1) (2) (3)

1. Figure (1) represents solid matter. ( )
2. Figure (2) represents liquid matter. ( )
3. By increasing the spaces between the particles of figure (2), it may change into solid state. ( )
4. Particles of figure (1) have more energy than particles of figure (3). ( )

2 (A) Complete the following sentences :

1. An area that provides food, water and shelter to all living organisms which live in it, is known as ....
2. According to temperature, matter can be classified into .... and .... objects.
3. Helium is not .... or .... , so it is considered as a safe gas.
4. Without .... in the leaves of plants, gases can't move in or out of the plant.

(B) Give a reason for the following :

When the temperature of ice cubes increases, they will melt.

....

....

3 (A) Write the scientific term of each of the following :

1. They are changes in matter which are usually reversible and don't affect its structure. (..........................)
2. It is the process by which matter changes from liquid state to gas state. (..........................)
3. A tool is used to measure the length of wall. (..........................)
4. They are consumers that exist at the top of food chains. (..........................)

(B) What happens if ... ?

Plant's leaves don't contain chlorophyll.

....

....

4 (A) Put (✓) or (✗) :

1. Producers and consumers use carbon dioxide gas for making their food. (   )
2. Ecosystem can be effected by climate changes, pollution and human activities. (   )
3. Air particles are visible as they are very large particles. (   )
4. Iron spoon is attracted to the magnet. (   )

(B) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Photosynthesis process	a. it is a process in which the blood carry oxygen to all body parts.
2. Decomposition process	b. it is a process in which the nutrients are returned to the ecosystem.
	c. it is a process through which producers make their own food.

1. .... 2. ....

Model Exam 6

1 (A) Complete the following sentences :

1. The food of plant is a type of .... which is made in their .... by photosynthesis process.
2. Sunligth energy converts .... and .... into glucose inside the plant's leaves.
3. Heavy rain causes .... which destroys desert ecosystems.
4. According to hardness of matter, a sponge and a feather are examples of .... matter, while a coin and a brick are examples of .... matter.

(B) Give a reason for the following :

The roof of tropical rainforest home is made of leaves and sticks.

....

2 (A) Choose the correct answer :

1. Which of the following matter has a definite volume and shape ? ....
   a. Water. b. Milk. c. Ice. d. Air.

2. In the presence of Sun and water, the seeds can germinate at the beginning of growth without the need of ....
   a. soil. b. rocks. c. insects. d. dry paper towel.
3. Which of the following living organisms can make their own food ? ....
   a. Hawks. b. Mice. c. Pine trees. d. Caracals.
4. If all grasses were removed completely from an ecosystem, rabbits in this ecosystem will ....
   a. increase. b. decrease. c. die. d. not be affected.

(B) Cross out the odd word :

Plastic – Vinegar – Iron – Aluminium. (.........................)

3 (A) Put (✓) or (X) :

1. We can differentiate between sugar and flour by texture. (   )
2. When a solid matter gains thermal energy, it will change into liquid state. (   )
3. Plants and humans are similar in the way of getting food. (   )
4. Human can eat plants and animals. (   )

(B) What happens to ... ?

The microorganisms if the seawater becomes warm.

....

4 (A) Write the scientific term of each of the following :

1. The building unit of matter. (.........................)
2. It is a measure of the amount of matter. (.........................)
3. It is the process by which matter changes from gas state to liquid state. (.........................)
4. Parts of the plant where sunlight allows carbon dioxide to combine with water during photosynthesis process. (.........................)

(B) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Photosynthesis process 2. Respiration process 3. Decomposition proces	a. It produces nutrients, which is improtant for soil fertility. b. It produces light, which is important for plants. c. It produces oxygen gas, which is important for breathing. d. It produces carbon dioxide gas, which is important for plants.

1. .... 2. .... 3. ....

Model Exam 7

1 (A) Write the scientific term of each of the following :

1. A human activity that leads to decreasing the number of fish and affecting many marine food webs. (..........................)
2. The gas that is produced from photosynthesis process. (..........................)
3. The process that takes place inside plants through which we can get oxygen. (..........................)
4. A property of matter by which we can distinguish between hot and cold objects. (..........................)

(B) What happens to ... ?

The temperature of a matter if the speed of its particles decreases.

....

....

....

2 (A) Put (✓) or (X) :

1. We can use thermometer to measure the temperature of a hot cup of tea. (   )
2. If we increase the temperature of some pieces of ice, they will melt. (   )
3. Photosynthesis process takes place in the plant roots. (   )
4. The first link in any food chain is a consumer. (   )

(B) Give a reason for the following :

Chlorophyll in plant's leaves has an important role in photosynthesis process.

....

....

3 (A) Complete the following sentences :

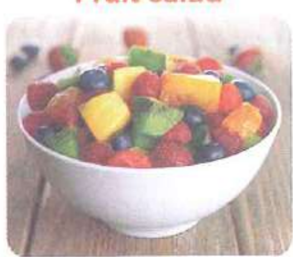
1. In a food chain, the energy flows from .... consumer to a secondary consumer.
2. Particles of liquid matter can move more faster than .... matter and move slower than .... matter.
3. We can use .... gas to fill blimps, because it is lighter than ....
4. When two substances combine and form a new substance, this new substance is called a ....

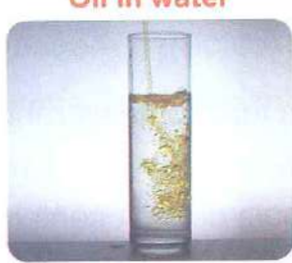
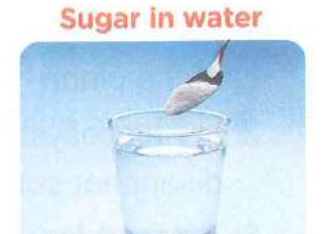
(B) Mention the state of matter which form the following mixtures by using the words below :

(Solid and liquid – Gas – Solid – Liquid)



Fruit salad | **Air** | **Oil in water** | **Sugar in water**



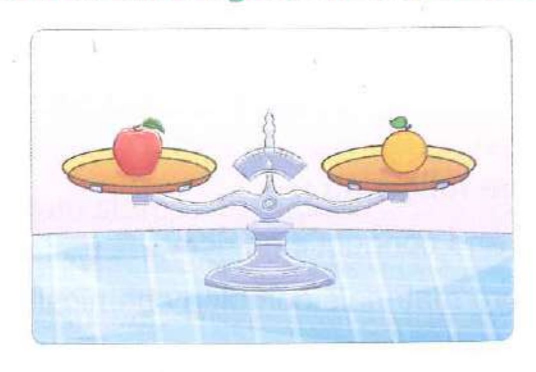
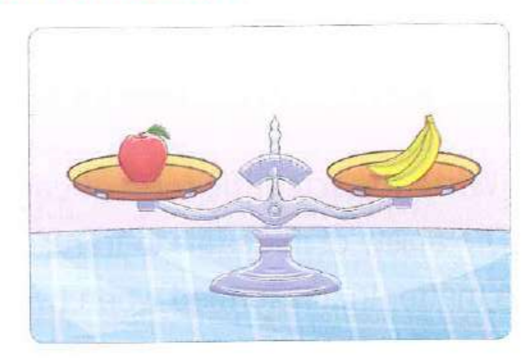



1. .... materials 2. .... materials 3. .... materials 4. .... materials

4 (A) Choose the correct answer :

1. All of the following materials can reach the plant's leaves, <u>except</u> ....
   a. nutrients. b. carbon dioxide gas.
   c. water. d. soil.
2. A snake is a predator for mice, while snake is considered as a prey for ....
   a. rabbit. b. frog. c. eagle. d. deer.
3. Which of the following two living organisms don't have direct food relationship between them ? ....
   a. Parrotfish and shark. b. Butterflyfish and shark.
   c. Triggerfish and shark. d. Eagle and shark.
4. Oil takes the .... of its container.
   a. volume b. shape c. color d. mass

(B) Look at these figures then choose the correct answer :

a. The mass of the two bananas is greater than the mass of the orange.
b. The mass of the apple is smaller than the mass of the orange.
c. The mass of the orange is smaller than the mass of one banana.
d. The mass of the orange is equal to the mass of the two bananas.

Model Exam 8

1 (A) Put (✓) or (✗) :

1. Phloem transports food materials downward from the leaves to other parts of the plant. ( )
2. In an ecosystem that contains rabbits, mice, eagles and snakes only, if snakes disappear completely, so eagles will disappear completely. ( )
3. A desert food chain doesn't contain any type of fish. ( )
4. A model of an airplane shows us how it flies up into the air. ( )

(B) Give a reason for the following :

Human can use helium gas safely.

....

2 (A) Choose the correct answer :

1. Condensation changes the matter from .... state to .... state.
   a. solid – liquid b. liquid – gas c. gas – liquid d. liquid – solid
2. The green plants can make their own food through ....
   a. roots. b. leaves. c. stems. d. flowers.
3. Any food chain started with ....
   a. insects. b. plants. c. fungi. d. bacteria.
4. If the climate change is suitable, the population of a species will ....
   a. increase. b. decrease. c. die. d. not be affected.

(B) What happens if ... ?

A liquid changes into gas. (according to the speed of particles).

....

....

3 (A) Write the scientific term of each of the following :

1. The ability of materials to transfer heat and conduct electricity. (........................)
2. A matter that is formed when two or more materials combine chemically. (........................)
3. Narrow holes spread on the surface of plant's leaves that allow gases to come in and out the plant. (........................)
4. They are organisms that feed on the dead organisms bodies and break them down into smaller pieces. (........................)

(B) Cross out the odd word :

Water – Gasoline – Gold – Milk. (.........................)

4 (A) Complete the following sentences using the words below :

(solid – liquid – gas – space – particles)

1. The state of matter that has a definite volume, but it doesn't have a definite shape is ....
2. Volume is the amount of .... that matter takes up.
3. We can classify the states of matter into liquid, ... and ....
4. Matter is made up of tiny ....

(B) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Carbon dioxide 2. Sand	a. is a solid matter. b. is a liquid matter. c. is needed for photosynthesis.

1. .... 2. ....

Model Exam 9

1 (A) Choose the correct answer :

1. We can measure the volume of a liquid by all the following units <u>except</u> ....
   a. kilogram. b. milliliters.
   c. cubic centimeters. d. liters.
2. Among chemical changes which is occured in cooking is ....
   a. cutting vegetables. b. boiling of water.
   c. melting of chocolate. d. baking a cake.
3. The kind of stems that extend underground are called ....
   a. climb stems. b. tubers. c. runners. d. wood stems.
4. Many insects are considered as ....
   a. producers. b. decomposers.
   c. primary consumers. d. secondary consumers.

(B) What happens if ... ?

A small lake is exposed to extreme hot climate for several months.

....

Part 2

2 (A) Complete the following sentences by using the words below :

(chemical – physical – rough – odor)

1. Both of odor and texture of matter are considered from the .... properties of matter.
2. You can identify the .... of a juice by using the sense of smell.
3. We can describe the texture of sugar crystals by saying "it has .... crystal texture".
4. The ability of a piece of iron to rust is from the .... properties of matter.

(B) Give a reason for the following :

Both melting and freezing processes are considered as physical changes.

....

3 (A) Put (✓) or (✗) :

1. Plant's stem has hairs that absorb oxygen gas from the air. (   )
2. Birds are secondary consumers, because they eat insects that feed on plants. (   )
3. Microorganisms are producers that small fish feed on to get energy. (   )
4. The speed of water vapor particles is greater than that of water particles. (   )

(B) Look at the opposite model that shows the particles of a substance, then complete the following sentences :

1. This model represent a substance in .... state.
2. If we want to make changes in this model to show this substance in a liquid state, we should .... the distances between balls.

4 (A) Write the scientific term of each of the following :

1. The property of matter which is measured by the balance. (........................)
2. The state of water when its temperature is located between 0°C and 100°C. (........................)
3. A substance that is produced from the plant during photosynthesis process and provides it with its needed energy. (........................)
4. The consumer who eats another animal. (........................)

(B) Put letter (P) in front of physical properties and letter (C) in front of chemical properties of the different matter below :

1. The white color of milk. (..........................)
2. The ash produced from burning a paper. (..........................)
3. The large crystals of salt particles. (..........................)
4. The odor of perfume. (..........................)

Model Exam 10

1 (A) Put (✓) or (X) :

1. Light is important for plant growth. (   )
2. Water and carbon dioxide are absorbed by plant's root to help the plant to grow. (   )
3. Light and sound are forms of matter. (   )
4. Liquids don't take the shape of the container that they are placed in. (   )

(B) Correct the underlined words :

1. Humans can get their food from <u>air</u> and animals. (..........................)
2. <u>Oxygen</u> gas is absorbed by plant's leaves to make photosynthesis process. (..........................)

---

2 (A) Write the scientific term of each of the following :

1. A device used to examine one tiny particle such as a blood cell. (..........................)
2. The scientists who measure the size and shape of fossils. (..........................)
3. The process by which plant can make its own food. (..........................)
4. A part of the plant that fix it in the soil. (..........................)

(B) Give a reason for the following :

Wood has definite shape and volume.

....

....

---

3 (A) Complete the following sentences :

1. In the .... matter, the volume and shape don't change.
2. Water evaporates when it is exposed to a .... temperature.
3. You can use a ruler to measure the .... of your book, while you can use a balance to measure its ....
4. If an iron cube and an amount of cotton have the same mass, so the volume of .... is smaller than that of the ....

(B) What happens to ... ?

The size of a balloon when you blow it up.

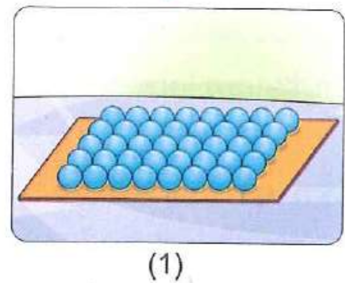
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....

4 (A) Choose the correct answer :

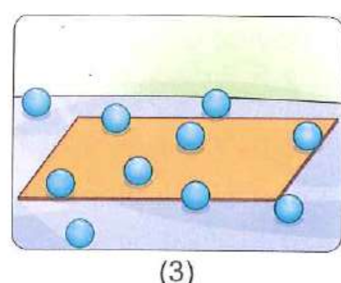
1. We can measure the mass of a cube of ice by using a ....
   a. thermometer. b. ruler.
   c. measuring tape. d. balance.
2. We can identify milk by determining its ....
   a. color and texture. b. shape and odor.
   c. color and taste. d. color and size.
3. To separate sand from salty water, we can use .... process.
   a. filtration b. evaporation c. melting d. freezing
4. The .... of plant get water and nutrients from the soil.
   a. roots b. stems c. leaves d. flowers

(B) The following figures show three models of particles of some matter related to our planet Earth. Observe the figures carefully, then complete the following sentences :



(1)

(2)



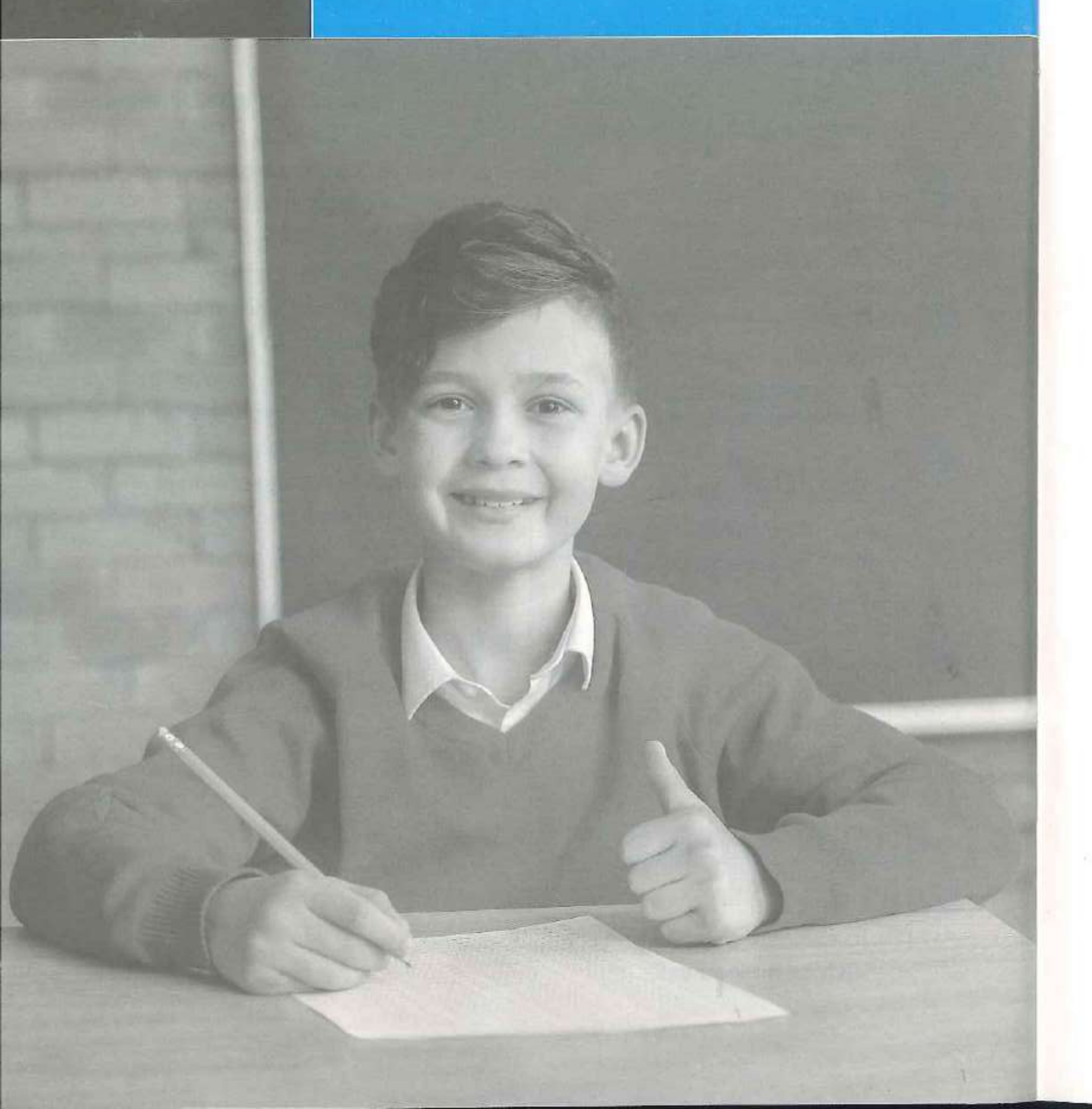
(3)

1. Beads of figure .... could represent the particles of a rock on the Earth's surface.
2. Beads of figure .... could represent the particles of river water on the Earth.

Part

3

Guide Answers of Final Examinations



Model Exam 1

1 (A) 1. c 2. c 3. b 4. c
(B) To protect the desert home from dust and dirt.

2 (A) 1. (✓) 2. (✗) 3. (✓) 4. (✗)
(B) It can't make photosynthesis process and it will die.

3 (A) 1. pollution.
2. consumers – decomposers
3. stomata
4. physical – chemical
(B) 1. Wood, (all items are liquids, while wood is solid).
2. Sunlight, (all items are parts of the plant, while sunlight is an energy).

4 (A) 1. leaves 2. water.
3. seeds
4. Photosynthesis.
(B) 1. c 2. d 3. b

Model Exam 2

1 (A) 1. melts
2. substance – properties.
3. steel – hard
4. balance – thermometer
(B) It will increase.

2 (A) 1. Population. 2. Prey.
3. Water.
4. Plant's roots.
(B) To get his needed energy and to do his activities.

3 (A) 1. c 2. a 3. e 4. d
(B) 1. white. 2. wood

4 (A) (1) Grasses (2) Duck
(3) Fox
a. tertiary
b. decomposers.
c. light – chemical
(B) 1. Oxygen gas, (all items are used in photosynthesis process, while oxygen gas is produced from photosynthesis process).
2. Oxygen, (all items are solids, while oxygen is a gas).

Model Exam 3

1 (A) 1. (✗) 2. (✓) 3. (✓) 4. (✗)
(B) The magnet attracts iron nail but it doesn't attract the plastic spoon.

2 (A) 1. shelter. 2. overfishing.
3. extinction. 4. predator
5. toxic
(B) 1. leaves 2. roots

3 (A) 1. Melting process.
2. The volume.
3. Globe.
4. Tertiary consumers.
(B) Because the temperature of ice increases so, it will melt and becomes liquid.

4 (A) 1. a 2. b 3. c 4. c
(B) b

Model Exam 4

1 (A) 1. Plant's reproduction.
2. Producers.
3. Seabirds. 4. Solid state.
(B) Because helium is lighter than air.

2 (A) 1. (✓) 2. (✗) 3. (✓) 4. (✓)
(B) Water and nutrients will not move up from the root to the leaves.

3 (A) 1. A plant 2. bacteria
3. primary 4. eagle
5. bacteria
(B) 1. b 2. c 3. a 4. d

4 (A) 1. b 2. c 3. a 4. a
(B) 1. (✗) 2. (✓) 3. (✗) 4. (✗)

Model Exam 5

1 (A) 1. b 2. b 3. b 4. c
(B) 1. (✓) 2. (✓) 3. (✗) 4. (✗)

2 (A) 1. ecosystem.
2. hot – cold
3. flammable – poisonous
4. stomata
(B) Because by increasing temperature, it will gain energy and changed into liquid water.

3 (A) 1. Physical changes.
2. Evaporation process.
3. Tape Measure.
4. Top predators.
(B) The plant can't absorb the energy of sunlight, so it can't make photosynthesis.

4 (A) 1. (✗) 2. (✓) 3. (✗) 4. (✓)
(B) 1. c 2. b

Model Exam 6

1 (A) 1. sugar – leaves
2. carbon dioxide gas – water
3. flooding
4. soft – hard
(B) To protect this home from animals getting inside.

2 (A) 1. c 2. a 3. c 4. c
(B) Vinegar (all items are solids, while vinegar is a liquid).

3 (A) 1. (✓) 2. (✓) 3. (✗) 4. (✓)
(B) The microorganisms will move away to a cooler water and also fish that feed on it.

4 (A) 1. Particle. 2. Mass.
3. Condensation process.
4. Plant's leaves.
(B) 1. c 2. d 3. a

Model Exam 7

1 (A) 1. Overfishing.
2. Oxygen gas.
3. Photosynthesis process.
4. Temperature.
(B) The temperature of the matter will decrease.

2 (A) 1. (✓) 2. (✓) 3. (✗) 4. (✗)
(B) Because it absorbs the energy of sunlight that helps the plant to make photosynthesis.

3 (A) 1. a primary 2. solid – gas
3. helium – air.
4. compound.
(B) 1. Solid 2. Gas
3. Liquid
4. Solid and liquid.

4 (A) 1. d 2. c 3. d 4. b
(B) d

Model Exam 8

1 (A) 1. (✓) 2. (✗) 3. (✓) 4. (✓)
(B) Because it is not flammable and not poisonous.

2 (A) 1. c 2. b 3. b 4. a
(B) The speed of particles will increase.

3 (A) 1. Conduction.
2. Compound.
3. Stomata.
4. Scavengers.
(B) Gold (all items are liquids, while gold is solid).

4 (A) 1. liquid. 2. space
3. solid – gas. 4. particles.
(B) 1. c 2. a

Model Exam 9

1 (A) 1. a 2. d 3. b 4. c
(B) The water of the lake decreases due to evaporation and may be completely disappear.

2 (A) 1. physical 2. odor
3. rough 4. chemical
(B) Because in these processes the matter changes without any change in its structure.

3 (A) 1. (✗) 2. (✓) 3. (✓) 4. (✓)
(B) 1. solid 2. increase

4 (A) 1. Mass. 2. Liquid state.
3. Sugar 4. Predator.
(B) 1. P 2. C 3. P 4. P

Model Exam 10

1 (A) 1. (✓) 2. (✗) 3. (✗) 4. (✗)

(B) 1. plants

2. Carbon dioxide

2 (A) 1. Electron microscope.

2. Paleontologists.

3. Photosynthesis process.

4. Roots.

(B) Because it is a solid matter.

3 (A) 1. solid 2. high

3. length – mass.

4. iron – cotton.

(B) The size of the balloon will increase.

4 (A) 1. d 2. c 3. a 4. a

(B) 1. (1) 2. (2)



Al-Adwaa Model Exams on the First Term

Model 1

Answer Guide: P. 76

(Total mark) 30

1 Choose the correct answer:

1. You can scientifically describe "atmospheric air" as: ....
   a. a pure substance in a gaseous state and its molecules are close together
   b. a mixture consisting of several gases in equal proportions
   c. a mixture consisting of several gases in different proportions
   d. not a substance
2. The gas produced by the photosynthesis process is consumed by living organisms in the .... process.
   a. photosynthesis b. respiration c. sensation d. All the previous answers.
3. If the predators disappear from an ecosystem, ...
   a. this ecosystem is not affected b. the number of prey increases
   c. the prey dies of starvation and the ecosystem is disturbed
   d. plants and herbs grow faster
4. Iron is used in ....
   a. electrical wires b. car bodies and bridges
   c. cooking utensils d. tires for cars and planes

2 Complete the following sentences, using words between brackets:

1. The potato plant contains a type of stem known as ....(woody stems – tuberous stems)
2. One of the factors that negatively affect the food web is............ .
   (extinction of species – adaptation of species)
3. Green plants can be classified as .... (producers – decomposers)
4. Water vapor is an example of a substance in the .... state. (liquid – gaseous)

3 Put (✓) or (✗) in front of each sentence:

1. Metal rusts due to chemical changes that occur to the material. ( )
2. Soil is one of the basic needs of plants. ( )
3. Balloons are filled for celebrations with oxygen gas or carbon dioxide. ( )
4. The solid particles are assembled and arranged in a regular shape. ( )

4 (A) Write the scientific term for each of the following:

1. It is the change of matter from the gaseous state to the liquid state, by cooling. (............)
2. It is a model that shows a linear set of feeding relationships and energy movement among living things within specific species. (............)

(B) Decomposing organisms such as fungi and bacteria plays an important role in the environment. Explain ....

Model 2

(Total mark) 30

1 Choose the correct answer:

1. All the following are products of the photosynthesis process except ....
   a. oxygen b. carbon dioxide c. glucose d. protein
2. All of the following are from the physical properties of matter except ....
   a. texture b. temperature
   c. density d. rusting
3. When the particles of a solid gain energy, they ....
   a. converge more and arrange regularly b. get more coherent
   c. diverge and move more freely
   d. are not affected by this energy and remain in a solid state
4. Which of these materials has a definite shape and takes up space? ....
   a. Water vapor b. Wood c. Oil d. Helium gas
5. Food webs show the interactions between ....
   a. a small number of living organisms b. living and non-living components of an ecosystem
   c. some interconnected food chains d. producers, consumers, and decomposers

2 Complete the following sentences, using words between brackets:

1. In many food chains, the rabbit is an example of .... (first consumers – third consumers)
2. The reproductive organ in many plants is the .... (flower – root)
3. Wax melting is an example of the .... change of matter. (physical – chemical)
4. Snow differs from water in .... (composition – physical state)
5. The mixture of sand and water can be separated by .... (filtration – magnet)

3 (A) Put (✓) or (✗) in front of each sentence:

1. Temperature affects the mass of a substance. (   )
2. The measuring tape is used to measure dimensions of the school class. (   )
3. Sticky seeds are easily carried by the wind. (   )

(B) 1. Arrange the following organisms to form a food chain:

(small bird – locust – snake – grass – hawk)

- ....

2. If the grass is removed from a food chain, the food chain will be destroyed in this ecosystem. Explain.

- ....

Model 3

(Total mark) 30

1 Choose the correct answer:

1. Copper molecules are similar to iron because ....
   a. they are easily visible to the naked eye
   b. they are convergent and arranged in a regular order
   c. they move more freely
   d. they have indefinite shape
2. The parts of the plant that absorb sunlight to complete the process of photosynthesis are ....
   a. stems
   b. leaves
   c. root hairs
   d. flowers
3. Which of these options could be the correct order of a food chain? ....
   a. Mouse ⟶ Hawk ⟶ Snake ⟶ Grass
   b. Grass ⟶ Rat ⟶ Hawk ⟶ Snake
   c. Grass ⟶ Locust ⟶ Frog ⟶ Snake
   d. Locust ⟶ Mouse ⟶ Snake ⟶ Nest
4. Which of the following does not express the properties of mixtures? ....
   a. They exist in a solid, liquid, or gaseous state
   b. Their components are physically combined
   c. They react with each other
   d. Their components can be separated easily
5. When an organism disappears from a balanced ecosystem, it affects ....
   a. other organisms that feed on it
   b. the food webs of this ecosystem
   c. the energy that flows between living organisms
   d. All the previous answers

2 Complete the following sentences, using the given words:

(xylem – physical – chemical – gaseous – Liquid – food web – energy)

1. The .... vessels transport water and nutrients from the root to all parts of the plant.
2. .... substance can be poured, and it takes the shape of the container in which it is placed.
3. A person needs more .... when making physical effort or practicing sports activities.
4. A .... change of a substance leads to the formation of new substances.
5. A group of interconnected food chains is known as a ....

3 (A) Put (✓) or (✗) in front of each sentence:

1. Sticky seeds are easily transmitted by insects. (   )
2. When the temperature of water vapor decreases, it loses energy. (   )
3. Any substance consists of particles in a state of continuous motion. (   )

(B) Mention one use for each of the following:

1. Thermometer ....
2. Copper ....

Model 4

(Total mark) 30

1 Choose the correct answer:

1. The plant needs air in the photosynthesis process using ....
   a. root   b. xylem   c. phloem   d. stomata
2. .... are organisms responsible for returning nutrients into the soil.
   a. Producers   b. Consumers   c. Decomposers   d. Autotrophs
3. When a piece of ice is exposed to sunlight directly, its particles ....
   a. lose energy and turn into liquid water   b. gain energy and get closer
   c. lose energy, and their composition changes
   d. gain energy and turn into liquid water
4. Which of the following is not a physical change of matter? ....
   a. Cutting paper   b. Dissolving a mold of sugar in water
   c. Producing yogurt from milk   d. Recycling paper
5. Matter that does not have a fixed volume and does not have a fixed shape is a ....
   a. solid   b. liquid   c. gas   d. wood

2 Complete the following sentences, using words between brackets:

1. .... is the measure of how fast the particles move in a substance. (Mass – Temperature)
2. The blood vessels that carry blood with oxygen and glucose to all parts of the body are .... (arteries – veins)
3. A group of interconnected food chains are called ....(food webs – ecosystems)
4. In celebrations, balloons are filled with helium gas because it has .... than the air. (less density – more density)
5. The unit that is used to measure the mass of chemicals used during experiments is called .... (milliliter – gram)

3 (A) Write the scientific term for each of the following:

1. The substance that gives plants their green color and absorbs sunlight to complete the process of photosynthesis. (................)
2. It is any increase or decrease in the number of organisms in an area. (................)
3. The process of converting a substance from a liquid state to a solid state by cooling. (................)

(B) Coral reefs are one of the most diverse and valuable ecosystems on earth. Explain.

Model 5

(Total mark) 30

1 Choose the correct answer:

1. .... is responsible for transporting glucose and oxygen to all human body parts.
   a. The digestive system
   b. The circulatory system
   c. The respiratory system
   d. The nervous system
2. The property that made rubber the most suitable material for making bicycle and car tires is ....
   a. water resistance b. high flexibility c. high hardness d. Both (a) and (b)
3. Which of these organisms does a food chain start with in a desert ecosystem? ....
   a. Locusts b. Grass c. Hawk d. Coral reefs
4. All the following are evidences of a chemical change of substance except ....
   a. the appearance of gas bubbles
   b. the formation of sediments or new materials
   c. the change of the substance from the solid state to the liquid state
   d. the strong smell and high temperature.

2 Complete the following sentences, using words between brackets:

1. The part(s) of the plant that is/are responsible for absorbing water and nutrients from the soil is/are .... (root hairs – phloem)
2. The particles of matter converge to each other and arrange in regular order in the .... state. (solid – liquid)
3. We can reduce the amount of plastic in aquatic ecosystems by .... (increasing use – recycling)
4. The mass of a mixture of several substances .... the sum of the masses of the substances before mixing. (is greater than – is equal to)

3 Correct the underlined words:

1. The property that determines if a body floats or sinks in a liquid is <u>temperature</u>.
2. Grinding sugar is considered a <u>chemical</u> change in the substance.
3. Plants make their food in the <u>absence</u> of sunlight.
4. The <u>thermometer</u> is used to measure the volume of liquid substances like oil.

4 Look at the opposite figure, then answer:

1. The figure expresses the .... process. (predation – decomposition)
2. The prey and predator in this food chain are .... (consumers – producers)
3. Describe what will happen when snakes disappear from a balanced ecosystem.
   ....

Model 6

(Total mark) 30

1 Choose the correct answer:

1. The process by which a plant makes its own food and produces oxygen gas is known as: ....
   a. respiration b. photosynthesis c. osmosis d. transportation in plants
2. The ecosystem consists of ....
   a. living organisms only b. non-living things only
   c. living organisms and non-living things d. No correct answer.
3. When the water temperature rises to 90°C, ...
   a. its molecules lose energy and move more
   b. water evaporates and turns into a gaseous state
   c. its molecules get close to each other, and the water remains liquid
   d. its molecules lose energy, and their composition changes
4. Which of the following substances is represented by its molecules in this form?
   a. Helium gas. b. Copper.
   c. Water vapor. d. Vinegar.
5. A long, dry season in a rainforest produced below-average rainfall, and some plant populations declined afterwards. Why did the change in weather pattern affect plants' growth in the region? ....
   a. As the dry season causes the temperature in the area to drop.
   b. As the dry season causes the soil to become less nutrient-rich.
   c. As the dry season reduces the amount of water in the ground.
   d. As the dry season causes less sunlight to reach the ground.

2 Complete the following sentences, using words between brackets:

1. Reptiles and birds are creatures that .... food. (produce – consume)
2. The property that helps us to use glass in medical glasses is ....
   (it is a transparent material – it is a good conductor of heat)
3. The transformation of a substance from a solid state to a liquid by heating is ....
   (melting – condensation)
4. When pollution occurs within an environmental system, it negatively affects food webs and energy transfer............ . (continues – is destroyed)
5. Throwing plastic in water is one of the .... impacts of human activities. (positive – negative)

3 Put (✓) or (✗) in front of each sentence:

1. The function of the vascular system in a plant is similar to that of the digestive system in humans. ( )
2. Energy is transferred from one organism to another living organism within an ecosystem. ( )
3. Air consists of gaseous mixtures. ( )
4. Liquid substances have definite shapes and take up space. ( )
5. Temperature neither affects the state of matter nor its particles motion. ( )

Model 7

(Total mark) 30

1 Choose the correct answer:

1. Plants use energy from .... to make their own food.
   a. batteries b. fire c. sunlight d. wind
2. Combination of two or more substances that are not chemically combined is called ....
   a. compound b. mixture c. mass d. volume
3. Energy, in the form of food, flows from one organism to another. Which is the correct direction of this energy flow? ....
   a. From producers to consumers
   b. There is no energy flow between producers and consumers
   c. Back and forth between consumers and producers
   d. From consumers to producers
4. Matter is ....
   a. only liquids
   b. anything that has mass and takes up space
   c. only water in different states
   d. only solids
5. All the following are from the chemical properties of matter, except ....
   a. ability to react with another material
   b. size
   c. flammability
   d. rusting

2 Complete the following sentences, using words between brackets:

1. The plant stores chemical energy in the form of .... (sugars – oxygen)
2. Particles of a matter are in a .... state. (motion – static)
3. The primary source of energy is the .... (green plants – sun)
4. Heavy rains .... the desert habitat. (develop – destroy)
5. The particles of .... vibrate only and do not move from their places. (solids – gases)

3 Put (✓) or (✗) in front of each sentence:

1. Stomata in the plants' leaves act as the respiratory system in humans. ( )
2. By increasing temperature, the particles of matter lose energy and become faster. ( )
3. In food web, all energy is transferred from one organism to another while feeding on it. ( )
4. Liquids can be poured, while solids can't. ( )
5. One kilogram is equal to 1000 ml of distilled water. ( )

Model 8

(Total mark) 30

1 Choose the correct answer:

1. Which of the following represents a "prey-predator" relationship? ....
   a. Grass and snake
   b. Snake and mouse
   c. Owl and green plant
   d. All the previous answers
2. Which of the following materials has a fixed shape and a fixed volume? ....
   a. Solid
   b. Liquid
   c. Gas
   d. All the previous answers
3. .... are the factors which decrease the population number of species in an area.
   a. Suitable climate changes
   b. Migration of living organisms
   c. Unsuitable climate changes
   d. Both (b) and (c)
4. All the following are from the properties of mixture except ....
   a. its component can't be separated easily
   b. its components keep their own properties
   c. its components can be separated easily
   d .its components are mixed physically
5. Electrical wires are usually covered with a layer of plastic, because ....
   a. it helps electricity flow along the wire
   b. it doesn't allow electricity to pass through it
   c. it makes the electric wires safe
   d. Both (b) and (c)

2 Complete the following sentences, using words between brackets:

1. Any food chain begins with a .... (producer – decomposer)
2. Snow, water, and water vapor are examples of .... (one object – different objects)
3. .... has a bad effect on ecosystem. (Drought – Recycling)
4. The boiling point of water is .... (0°C – 100°C)
5. .... is not consider a plant basic need. (Air – Soil)

3 Put (✓) or (✗) in front of each sentence:

1. When coral reefs get rid of algae existed in their tissues, they become red. (   )
2. The burning wood can return again to its original shape. (   )
3. Both plants and humans need gases to survive. (   )
4. Water and minerals move from up to down through the xylem vessels. (   )
5. Veins carry blood rich in carbon dioxide and low in oxygen to the heart. (   )

Model 9

(Total mark) 30

1 Choose the correct answer:

1. .... energy from the sun is changed into .... energy during photosynthesis.
   a. Chemical energy - light energy
   b. Light energy - chemical energy
   c. Thermal energy - light energy
   d. Electrical energy - chemical energy
2. How are solids unique from other forms of matter? ....
   a. Solids take the shape of any container
   b. Solids have a definite size and shape
   c. Solids can be poured
   d. No correct answer.
3. All matter is made of ....
   a. cells
   b. proteins
   c. particles
   d. muscles
4. Colored coral is an example of .... habitat.
   a. healthy
   b. dying
   c. unhealthy
   d. No correct answer.
5. All the following are mixtures except ....
   a. cement
   b. milk
   c. flour
   d. soya sauce

2 Complete the following sentences, using words between brackets:

1. Stomata allow air rich in .... to be released from the leaves. (oxygen – carbon dioxide)
2. Any food chain begins with producers and ends with .... (producers – decomposers)
3. Iron is attracted to the magnet. This is an example of a .... property. (physical – chemical)
4. Iron reacts with .... in the air and gets rusted. (oxygen – nitrogen)
5. Scientists use .... to study phenomena that might be difficult to observe directly. (models – reports)

3 Put (✓) or (✗) in front of each sentence:

1. Seeds play an important role in the plant's survival and continuity. (   )
2. Without decomposers, the Earth would be full of dead bodies. (   )
3. When the volume of matter increases, its density increases. (   )
4. During changing liquids into solids the particles move away from each other. (   )
5. Coral bleaching has a positive impact on coral reef. (   )

Model 10

(Total mark) 30

1 Choose the correct answer:

1. Electric wire is usually made up of copper, ...
   a. because copper is a bad conductor of heat
   b. because copper is a good conductor of heat
   c. because copper is a bad conductor of electricity
   d. because copper is a good conductor of electricity
2. .... is/are the green pigment in chloroplasts that captures the energy in sunlight.
   a. Chlorophyll b. Stomata c. Phloem d. Xylem
3. The rising of water vapor from the cooking pot represents a .... substance.
   a. solid b. liquid c. gaseous d. No correct answer
4. Wolves prefer to hunt deer for food. If the deer population in an area declines because of hunting by humans, the wolves would most likely ....
   a. find an area with more deer b. start to attack human hunters
   c. become endangered and then extinct d. choose another food to eat
5. .... is the gaseous state of water.
   a. Ice b. Vapor c. Water d. Wax

2 Complete the following sentences, using words between brackets:

1. The temperature of boiling water is measured by a .... (scale – thermometer)
2. .... transports sugars, starch and fats produced in the leaves to all the plant's parts. (Xylem – Phloem)
3. When liquid water is placed in the refrigerator, the movement of particles becomes .... (slower – faster)
4. The consumer eaten by another animal is called a .... (predator – prey)
5. Throwing plastic in water is one of the .... impacts of human activities. (positive – negative)

3 Put (✓) or (✗) in front of each sentence:

1. All kinds of matter have the same chemical and physical properties. ( )
2. Veins carry blood rich in carbon dioxide and low in oxygen to the heart. ( )
3. The states of matter depend on the arrangement of particles in a substance. ( )
4. Scavengers consume the remains of dead animals and plants. ( )
5. It is very hard to separate salt from water in salty water mixture. ( )

Model 11

(Total mark) 30

1 Choose the correct answer:

1. Which of these factors negatively affects food webs?
   a. The extinction of a species.
   b. The recycling of things.
   c. The adaptation of living organisms to environmental changes.
   d. The preservation of the habitat of living organisms.
2. Solids differ from other forms of matter in that they ....
   a. take the shape of the container
   b. have a fixed volume and a fixed shape
   c. can spill like a liquid
   d. have molecules move in all directions
3. The stomata exist on .... in the plant.
   a. stems
   b. leaves
   c. root hairs
   d. stems and leaves
4. In case of dissolving an amount of salt in a cup of water, ...
   a. a new substance is produced
   b. a chemical change occurs
   c. a liquid mixture of salt and water is formed
   d. the salt loses its taste

2 Complete the following sentences, using words between brackets:

1. From the units used to measure mass is .... (kilogram – liter)
2. The .... feeds on the remains of dead organisms. (producer – decomposer)
3. Ice and water are particles of .... (the same substance – two different substances)
4. The gas which is produced from the photosynthesis process is .... (oxygen – carbon dioxide)

3 Put (✓) or (✗) in front of each sentence:

1. Melting and reforming metals are from the physical changes of matter. (   )
2. Plants with upright stems grow vertically down like the stems of most flowers. (   )
3. The falcon is the first consumer in the food chain. (   )
4. Density is one of the chemical properties of a substance. (   )

4 Look at the opposite figure, then answer:

Eagle
Fox
Snake
Mouse
Spider
Grass
Hare

1. The figure expresses .... ecosystem. (deserts – tropical forests)
2. The figure represents a model for a .... (food chain - food web)
3. Describe what would happen if grass was removed from this ecosystem.

....

Model 12

(Total mark) 30

1 Choose the correct answer:

1. Plants use energy from sunlight to make their own food through a process called ....
   a. reproduction b. photosynthesis c. germination d. respiration
2. Which organism gets energy from another organism? ....
   a. A cactus b. An acacia tree c. A rabbit d. A flower
3. .... affects the food web.
   a. Increasing the number of a specific species
   b. Decreasing the number of a specific species
   c. The death of a specific species
   d. All the previous answers.
4. The particles of matter are very close to each other in the .... state.
   a. solid b. liquid
   c. gaseous d. All the previous answers.

2 Complete the following sentences, using words between brackets:

1. Fluffy seeds, like kapok tree seeds, can be dispersed by .... (wind – being eaten)
2. Particles of .... are packed tightly together. (solids – liquids)
3. .... is used in making electric wires. (Rubber – Copper)
4. We can separate the mixture of .... by filtering. (water and salt – sand and water)

3 Put (✓) or (✗) in front of each sentence:

1. When water turns into ice, the speed of movement of its particles increases. ( )
2. Wood is used in handles of cooking pans, as it is a good conductor of heat. ( )
3. Rusted iron and burning wood are examples of chemical changes. ( )
4. Solids and liquids both have definite shapes. ( )

4 Write the scientific term for each of the following:

1. Plants' structures that allow gases to get in and out of the leaves.
2. It is a model that shows a linear set of feeding relationships and energy movement among living things within specific species.
3. Any increase or decrease in the population number of a species.

Model 13

(Total mark) 30

1 Choose the correct answer:

1. Volume is the amount of .... that matter takes up.
   a. time   b. space   c. temperature   d. water
2. How can a model be helpful? ....
   a. Models give us step-by-step instructions about how to build something
   b. Models make something look better than it does in real life
   c. Models always make something smaller than it is in real life
   d. Models can help us see things that are too small or too big
3. Which part of the plant plays a similar role in keeping the plant alive to the circulatory system in humans?
   a.Stem.   b. Roots.   c.Leaves.   d. Flower.
4. .... is a community of living organisms, non-living things, and the environment.
   a.Habitat   b.Ecosystem   c. Food web   d. Food chain

2 Complete the following sentences, using words between brackets:

1. The states of matter depend on the arrangement of .... in a substance. (proteins – particles)
2. The consumer eaten by another animal is called a .... (predator – prey)
3. Seeds with sweet taste, like seeds on the strawberry, are best dispersed by .... (wind – being eaten)

3 Put (✓) or (X) in front of each sentence:

1. All kinds of matter have the same chemical and physical properties. (   )
2. Matter can change from one state to another. (   )
3. Producers are the first link in the food chain, while consumers are the final link. (   )
4. In food web, the energy transfers from a primary consumer to a producer. (   )

4 (A) Write the scientific term for each of the following:

1. It is a form of matter made of two or more different compounds mixed together physically. (....................)
2. A material that allows heat to pass easily through. (....................)

(B) Classify the following into chemical and physical changes:

1. Making a chair from wood.   2. Burning a piece of paper.

Model 14

(Total mark) 30

1 Choose the correct answer:

1. Photosynthesis occurs in the chloroplasts of plant cells. Which gas is released during this process?
   a. Nitrogen. b. Hydrogen. c. Oxygen. d. Carbon dioxide.
2. A food web shows the ....
   a. non-living features in the environment
   b. feeding relationships between organisms
   c. way that heat is trapped in an environment
   d. substances that contaminate the atmosphere
3. .... affects the food web.
   a. Increasing the number of a specific species
   b. Decreasing the number of a specific species
   c. The death of a specific species
   d. All the previous answers.
4. Anything that occupies a space is called ....
   a. matter b. mass c. volume d. gas

2 Complete the following sentences, using words between brackets:

1. Rubber is used to make the bottom of the sneakers, as it has .... as a physical property. (flexibility – heat conduction)
2. Melting a piece of wax is a .... change. (physical – chemical)
3. A .... is used to measure the dimensions of your class. (measuring tape – measuring cup)

3 Put (✓) or (✗) in front of each sentence:

1. Temperature neither affects the state of a matter nor the movement of its particles. ( )
2. Cutting wood into pieces changes its mass and density. ( )
3. Matter is made up of tiny particles that are in constant continuous motion. ( )
4. Food web is a model that shows a linear set of feeding relationships and energy flow among living organisms. ( )

4 (A) Write the scientific term for each of the following:

1. The process through which a solid changes into a liquid by heating. (..................)
2. Plant structures that anchor the plant in the soil. (..................)
3. A mixture of invisible gases. (..................)

(B) Xylem plays an important role in obtaining life-sustaining elements.
What will happen to the plant if there are no xylem vessels?

Model 15

(Total mark) 30

1 Choose the correct answer:

1. The mass of a substance changes when ....
   a. matter temperature changes
   b. matter state changes
   c. matter mixes with other substances that didn't react with one another
   d. the amount of matter in it changes
2. All the following are similarities between circulatory system in human and vascular systems in plant, except ....
   a. both are transport systems
   b. both transport water, nutrients, and dissolved substances
   c. both don't have vessels that transport substances in specific directions
   d. All the previous answers.
3. Plants are .... that get energy from the sun to make their own food.
   a. decomposers b. consumers c. producers d. non-living
4. Which of the following materials can't be poured?
   a. Water. b. Oxygen. c. Salt. d. Air.
5. Seeds that are dispersed by human: ....
   a. Can float on water
   b. Have sweet taste
   c. Have hooks or stiff hairs
   d. Have wing-like structures and are light

2 Complete the following sentences, using words between brackets:

1. Examples of the decomposing organisms are .... (plants and algae – fungi and bacteria)
2. The temperature does not affect the .... of the substance. (mass – physical state)
3. The air inside a balloon represents a .... substance. (solid – gaseous)

3 Put (✓) or (X) in front of each sentence:

1. Helium gas is mixed with oxygen in cylinders for diving underwater. ( )
2. Food webs show interactions between interconnected food chains. ( )

4 (A) Write the scientific term for each of the following:

1. Materials that have fixed shapes and take up space. (....................)
2. It is the number of organisms of one type of species living in an area. (....................)
3. It is a change in the shape and the size of the matter only without forming new substance. (....................)

(B) The cork floats on the water surface but the iron sinks. Explain. (....................)

....

....

Ministry of Education and Technical Education
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Science Development Department

Mock test (1) for grade 5 primary,
First Term, 2022/2023

Question (1) :

(A) choose the correct answer:

1- **Photosynthesis process takes place inside ………….**
   a-roots b-stems c-leaves d-flowers
2- **The food chain always starts with ……………**
   a-producers b-consumers c-decomposers d- predators
3- **The particles are packed tightly with each other is ………….**
   a-water b-iron c- oxygen d- all the previous
4- **The measuring unit of mass is…………**
   a- liter b- gram c- cm d- ml

(B) Form the food chain by using the following organisms:

a- small fish b- seabirds c-bacteria d- micro-organisms floating on the surface of the sea.

Question (2) :

(A) Put (√) in front of the correct statements and (×) in front of wrong one:

1- **The transport system of plant does the same function of circulatory system in human. (   )**
2- **Habitat loss is one of the main causes of extinction. (   )**
3- **The roof of desert home is similar to rainforest home. (   )**
4- **The matter changes from one state to other by increasing or decreasing of temperature. (   )**

(B) What are the main parts of plant?

Question (3):

(A) complete the following statements by using the following words:

(Phloem – bacteria and fungi – measuring tape – melts – balance – evaporates)

1- **One example of decomposers is ……………**
2- **……………. transports the glucose from the leaves to other parts of plants.**
3- **When ice …………., it will change from solid state to liquid one.**
4- **We can measure the length of classroom by using ………………**

(B) What is the reason for coral bleaching?

(End of Questions)

Ministry of Education and Technical Education
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Science Development Department

Mock test (2) for grade 5 primary,
First Term, 2022/2023

Question (1) :

(A) choose the correct answer :

1- …………… is from nonliving part of ecosystem.
   a-fungi   b-plant   c-soil   d-grasshopper
2- Lion is from ……………
   a-producers   b-grass eaters   c- meat eaters   d- decomposers
3- From an example of matter that attract to magnet is ………….
   a-cork   b-iron   c- wood   d- plastic
4- The measuring unit of volume…………
   a- cm   b- gram   c- cm^3 d- kg

(B) Form the food chain by using the following organisms:

   a- grass   b- rat   c-hawk   d- snake

Question (2) :

(A) Put (√) in front of the correct statements and (×) in front of wrong one:

1- The plants make their own food by respiration. (   )
2- Decomposers haven not a role in the ecosystem. (   )
3- The atmosphere is a mixture of many gases. (   )
4- Glass is a transparent material used in making eye glass (   )

(B) Mention two methods of seed dispersal.

Question (3):

(A) complete the following statements by using the following words :

(model – physical – chemical – imbalance – producers – decomposers)

1- When a drought occurs in a lake, it causes………..in ecosystem .
2- The …………get the energy from sunlight.
3- Iron rust and burning reactions are from…………..change.
4- ………………is a copy that is similar to real thing to show what it looks like or work like.

(B) What are the reasons of losing habitat?

(End of Questions)

Ministry of Education and Technical Education
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Science Development Department





Mock test (1) for grade 5 primary,
First Term, 2022/2023

Question (1) :

(A) choose the correct answer:

1- Photosynthesis process takes place inside ………….
   a-roots   b-stems   c-leaves   d-flowers
2- The food chain always starts with ……………
   a-producers   b-consumers   c-decomposers   d- predators
3- The particles are packed tightly with each other is …………
   a-water   b-iron   c- oxygen   d- all the previous
4- The measuring unit of mass is…………
   a- liter   b- gram   c- cm   d- ml

(B) Form the food chain by using the following organisms:

a- small fish   b- seabirds   c-bacteria   d- micro-organisms floating on the surface of the sea.

D -A-B-C (micro organism-small fish -sea birds-bacteria)

Question (2) :

(A) Put (√) in front of the correct statements and (×) in front of wrong one:

1- The transport system of plant does the same function of circulatory system in human. (√)
2- Habitat loss is one of the main causes of extinction. (√)
3- The roof of desert home is similar to rainforest home. (×)
4- The matter changes from one state to other by increasing or decreasing of temperature. (√)

(B) What are the main parts of plant?

Roots -stem -leaves

Question (3):

(A) complete the following statements by using the following words:

(Phloem – bacteria and fungi – measuring tape – melts – balance – evaporates)

1- One example of decomposers is …bacteria and fungi…………
2-transports the glucose from the leaves to other parts of plants. phloem
3- When ice….melts.., it will change from solid state to liquid one.
4- We can measure the length of classroom by using …measuring tape

(B) What is the reason for coral bleaching?

Rise of water temperature .

(End of Questions)

Ministry of Education and Technical Education
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Science Development Department





Mock test (2) for grade 5 primary,
First Term, 2022/2023

Question (1) :

(A) choose the correct answer :

1-...................... is from nonliving part of ecosystem.

a-fungi | b-plant | c-soil | d-grasshopper

2- Lion is from ……………

a-producers | b-grass eaters | c- meat eaters | d- decomposers

3- From an example of matter that attract to magnet is …………

a-cork | b-iron | c- wood | d- plastic

4- The measuring unit of volume…………

a- cm | b- gram | c- cm^3 | d- kg

(B) Form the food chain by using the following organisms:

a- grass | b- rat | c-hawk | d- snake

A -B-D-C (grass-rat-snake-hawk)

Question (2) :

(A) Put (√) in front of the correct statements and (×) in front of wrong one:

1- The plants make their own food by respiration. (✗)
2- Decomposers haven not a role in the ecosystem. (✗)
3-The atmosphere is a mixture of many gases. (✓)
4- Glass is a transparent material used in making eye glass (✓)

(B) Mention two methods of seed dispersal.

1- By wind 2 – sticking by animal fur

Question (3):

(A) complete the following statements by using the following words :

(model – physical – chemical – imbalance – producers – decomposers)

1- When a drought occurs in a lake, it causes imbalance in ecosystem .

2- The producers get the energy from sunlight.

3- Iron rust and burning reactions are from chemical change.

4-is a copy that is similar to real thing to show what it looks like or work like. model

(B) What are the reasons of losing habitat?

Climate change -pollution -human activities

(End of Questions)

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Grade 5 model exams

Model exam (1)

1-Complete the following statements from the brackets :

1 - The leaves of plants absorb…… (Water - Carbon Dioxide)

2 - Food web show…… (Food interaction between organisms - components of the Ecosystem)

3 - Particles in the gaseous state……. (coherent - Incoherent)

4 - A gram is equal to a mass of …………… (Paper clip - liter of water)

5 – ………Process occurs When oxygen reacts with carbon and hydrogen. (Rusting - Burning)

2-Put (✓) in front of the correct phrase and (✗) in front of the wrong statement:

1 - scavengers help in the decomposition of the remains of dead plants and animals into nutrients. ( )

2 - Seabirds build their nests on top of mountain cliffs . ( )

3 - Solids take the shape of its container. ( )

4 - The volume of water can be measured using a thermometer. ( )

5 - Rubber is used in the manufacture of glasses. ( )

3- Choose from column (A) what suits column (B):

column (A)	column (B):
1-Pine tree leaves	( ) Lighter than air.
2 – Shelter to many fish	( )Electrical conductor.
3 -From helium properties	( ) Small and needle shape
4 – From copper properties	( )Coral Reefs

B- From the opposite fig, plant was covered with a bag for several days,:

1 - The plant becomes…………. (Strong and green - yellow and weak).

2 - Plant will…………………food (Stop producing – produce).



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Model exam 2

1-Choose the correct answer:

1- plant makes its food by photosynthesis process in the presence of the sun, water and ……………gas

a-Nitrogen   b- carbon dioxide   c- oxygen   d- ozone

2 - ………… from living organisms in the ecosystem

a- Sunlight   b- Plant   c-Rock   d-A and B

3- particles of gas state ………….

A -move slowly   B- close to each other   c- move fast   d-very strong

4 - Balloons filled with………………………… gas.

a-oxygen   b- carbon dioxide   C-helium   d- radon

5 - The substance that has a fixed shape is ....

A – solids   B- liquid   c- gas   D-A and B

B -Choose from column (A) what suits column (B)

column (A)	column (B)
1 - Natural habitats.	( )It is considered food for microorganisms.
2 - Small fish.	( )Provide living organisms with what they need
	( ) Considered food for seabirds

Q.2 -A- Put (✓) in front of the correct phrase and (✗) in front of the wrong statement:

1 – hair roots reduce the amount of water and nutrients absorbed by the plant. (   )

2 – Hawks get energy from animals indirectly. (   )

3 - Gaseous substances change their shape and volume with the change of the shape and volume of the vessel in which they are placed. (   )

B- Complete the following statements from the brackets :

1 - Bread mold and mushrooms are………….. (decomposers - Consumers)

2 - Tubers are found in . …………. (Potato plant - grape plant)

3 - When the water is heated to a boiling point, the amount of water……………… (Decrease - Increase)

Q.3 – Arrange the following organisms to form a correct food chain








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Model exam 3

Q.1.A - Complete the following statements from the brackets :

1 - The leaves of plants contain……….. gives them their green color. (Chlorophyll - Stomata)

2 - ……..is a consumer in the third level of the food chain. (Sheep - Lion)

3 - Solids, liquids and gaseous matters are similar in ……………..(having fixed size – occupying space)

4 - Solid iron is considered a ……………………material. (soft - hard)

5 - The flow of sand in the hourglass is considered a…………… change. (Physically - Chemically)

B- Put (✓) in front of the correct phrase and (✗) in front of the wrong statement:

1.Green plants are the main source of energy for all living organisms on the planet. (   )

2 - Plastic particles keep the balance of food web in the marine environment. (   )

3 - The particles of the gaseous matter move faster than the solid and liquid matter. (   )

4 - physical properties of matter can be observed and measured by using the senses. (   )

5 - The freezing process is the reverse process of the melting process. (   )

Q.2 - Write the scientific term:

1 - hair-like shape, found on the roots of plants, increase the amount of water and nutrients absorbed by the plant . (   )

2 - A system consisting of the heart and blood vessels, responsible for the transport of nutrients and oxygen to and from the body. (   )

3 - The amount of matter that the body contain . (   )

4 - The ability of the material to transfer heat and electricity through it . (   )

Q.3-The stem in plants has different shapes, determine the shape of the stem in the following plants:

1 - trunks and shrubs…………………………………………………………………………………………………

2 - Most of the flowers……………………………………………………………………………………………..

3 - Grape plant. ………………………………………………………………………………………………………

4 - Potato plant. ……………………………………………………………………………………………………..



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Model exam 4

Q.1 A - Choose the correct answer:

1 - Worms from decomposers in the ecosystems because ....

a- They feed on live animals b- they feed on living plants c- Produces food d- returns nutrients to the soil

2 - Part that fix plant in the soil is ....

a- Root b-Stem c-Leaf d-Flower

3 - ....Matter whose particles move freely

a- Solid b-Liquid c-Gas d-A and B

4 - Material of definite volume and takes the shape of its container is ....

a- air b- water c-pen d- Book

5 – from nonliving -things.......................

a- Herbs b- Rabbit c-Soil d-Snake

B- Choose from column (A) what suits column (B)

column (A)	column (B)
1 - The amount of matter contained in the body is	**( )Temperature.**
2 - The amount of vacuum occupied by the material is	**( )Mass. .**
	( ) volume

Q.2 Put (✓) in front of the correct phrase and (X) in front of the wrong statement:

1 - The gaseous substance has a definite volume and shape. ( )

2 - Each plant or animal may be part of several food chains. ( )

3 - Plants need water to form a strong stem and leaves. ( )

Q.3 -A -Complete the following statements from the brackets:

1 - **Xylem transfer water rich in nutrient to............ (Top of the plant - bottom of the plant)**

2 - ....From secondary consumers. (Birds - crocodile)

3 - When the thermal energy of body particles increases, it becomes .... (Hotter - cooler)

B- Form a food chain from the given organisms, What would happen if the number of birds decrease

(Snake - Locust - Bird - Weeds – Hawk).



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Model exam 5

1-Choose the correct answer:

1- Photosynthesis process take place inside

a- Root　　b-Stem　　c-Leaf　　d-Flower

2 – The food chain always start with……………………….

a- producer　　b- consumer　　c-decomposer　　d-predator

3- particles are packed tightly with each other in …………………………….

a -water　　b- iron　　c- oxygen　　d-all the previous

4 – the measuring unit of mass is ………………………………… .

a-liter　　b- cm　　C-gram　　d- ml

5 - The substance that has a variable shape and volume shape is …………………………… .

A – solids　　B- liquid　　c- gas　　D-A and B

B- Form a food chain from the given organisms,

(small fish – seabirds – bacteria – microorganisms floating on the surface)

Q.2 -A- Put (✓) in front of the correct phrase and (Χ) in front of the wrong statement:

1 – The transport system of plant does the same function of circulatory system in human . ( )

2 – Habitat loss is one of the main causes of extinction ( )

3 – The roof of desert home is similar to rainforest home ( )

4-The matter change from one state to another by increasing or decreasing of temperature( )

B- What is the main parts of plants ?

……

Q.3 - A - Complete the following by using the following words

(Phloem –bacteria and fungi – measuring tape – melt – balance – evaporates)

1 – ………………transport the glucose from the leaves to other parts of plants

2 – When ice ………………………..it will change from solid state to liquid state

3 – We can measure the length of the class room by using ……………………………………………….

B – What is the reason for coral bleaching? …………………………………………………



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Model exam 6

1-Choose the correct answer:

1- ……………………………….is from non-living parts in ecosystem

a- Fungi b-Plants c-Soil d-Grasshopper

2 – Lion is from ……………………….

a- producer b- grass eaters c-decomposer d-predator

3- From the example of matter that attracted to the magnet is ……………………………

a -cork b- iron c- wood d-plastic

4 – the measuring unit of volume is …………………………………… .

a-cm^3 b- cm C-gram d- kg

B- Form a food chain from the given organisms, What would happen if the number of rats decrease (regarding to the number of grass

(hawk – grass – snake – rat)

……

Q.2 -A- Put (✓) in front of the correct phrase and (X) in front of the wrong statement:

1 – Plants make their own food by respiration. (   )

2 – Decomposer haven't no role in the ecosystem. (   )

3 – The atmosphere is a mixture of different gases. (   )

4-Glass is a transparent material used in making eye glass. (   )

B- Mention two methods of seed dispersal.

………

Q.3 - A - Complete the following by using the following words

(model –physical – unbalance – producers – decomposer – chemical)

1 – When a drought occurs in a lake , it causes ………………………in ecosystem

2 – The ………………get energy from sunlight.

3 -Iron rust and burning reactions are from ………………..changes

4-……………………………is a copy that is similar to real thing to show what it looks like or work like

B – What are the reasons of losing habitat? ……………………………………………………

Answer model exam 1



1- complete

1- carbon dioxide	2- food interaction organisms	3- incoherent
4- paper clip.	5- buring	

2- put (√) or (×)

1- ×	2- √	3-×
4-×	5- ×	

3- A - choose from (A) what suits column (B)

1- small and needle shape	2- Coral Reels	3- lighter than air
4- Electrical conductor		

B- from the apposite fig

1-Yellow and weak	2- Stop producing

Answer model exam 2

1- choose the correct answer

1- Carbon dioxide	2- plant	3- move fast
4- helium	solids	

3- A - choose from (A) what suits columan (B)

1- provide living organisms with what they need	2- considered food for seabirds



-

Q.2 a- put (√) or (×)

1- ×	2- ×	3-√

b- complete

1- decomposers	2- potato plant	3- decrease

- Which of the following staements

Q.3

c) Grass → locust → rat → Snakes

Answer model exam 3

Q.1-A- complete

1- Chlorophyll	2- lion	3- occupying space
4- hard	5-physically	

B- put (√) or (×)

1- √	2- ×	3- √
4- √	5- √	

Q.2- Write the scientific term

1- root hairs	2-Circulatory system	3-mass
4-conductivity		

Q.3- The steam in plants

1- wooden stem	2- upright stem	3- climbing stem
4-tubers		



Answer model exam 4

Q1- A- choose the correct answer

1- Returns nutrients	2- root	3- gas
4- water	5-soil	

B- choose from (A) what suits columan (B)

1- mass	2-volume	

Q.2- put (√) or (×)

1 - ×	2-√	3-√

Q.3 A - complete the correct answer

1-Top the palnt	crocodile	hotter

- Write afood chain

1- weeds → locusts → birds → snake → Hawk

-The number of locusts increase so the number of of weeds will decrease

Answer model exam 5

Q.1) A) 1- leaf - 2- producer 3- iron 4- gram 5- gas

B)

Microorganisms floating on the surface → small fish → seabirds→ bacteria)

Q.2) A-

1- √ 2- √ 3- x 4- √

B- roots - stem and leaves



Q.3) 1- phloem

2- melt

3-measuring tape

B- from the reasons of coral bleaching rising up the temperature of water

Answer model exam 6

1-A-

1- soil 2- predators 3- iron 4- cm^3

B- Grass → rat → snake → hawk

When the number of rat decrease the number of grass will increase

2-A- 1- X 2- X 3-√ 4-√

B- by air - by water - by the movement of living organisms

3-A- 1- unbalance

2-producers

3-chemical

4-model



B- From the reasons of losing habitat:

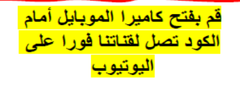
1- cutting trees

2- add buildings and roads

3- overfishing

4- add wastes to water





Exam (1)

1 Choose the correct answer:

①Which of the following represents photosynthesis?

A. Carbon dioxide + sunlight + water → oxygen + sugar

b. Carbon dioxide + sugar+ water → oxygen + sunlight

C. Oxygen + sunlight + water → carbon dioxide + sugar

d. Carbon dioxide + oxygen + water → light + sugar

② ………………………… are the factors which decrease the population number of species in an area.

a. Suitable climate changes b. Migration of living-organisms

c. Unsuitable climate changes d. Both (b) and (c)

③ Slanted roofs …………………..

a. prevent accumulation of snow on the roof b. allow rain to slide down

c. allow animals to enter the house. d. (a) and (b)

④ If we cut a ping-pong ball into halves, the ……… of one half of ping-pong ball will decrease to half.

a. color b. mass c. temperature d. shape

⑤When we place a plant stalk in colored water, ……………..

a. the stalk matches the color of the water

b. the xylem vessels move the water up

c. the stalk color doesn't change

d. Both (a) and (b)

⑥ Which of the following is NOT a property of particles of a matter?

a. The particles of matter are extremely small

b. The particles of matter are in continuous motion.

c. The particles of matter have spaces between them.

d. The particles of matter are in stationery state.

2 Write the scientific term:

1. A physical property that determines whether matter will float or sink.

(……………………..)

2. It represents the energy flow between organisms in an ecosystem.

(……………………….)

3. The green pigment in the plant that soaks up sunlight.

(……………………..)

4. It is a fundamental process to Earth, where plants absorb Sun's energy through leaves to make their own food by converting water and carbon dioxide from the air into glucose. (..........................)

5. A replacement system for plants that provides them with nutrients instead of the soil. (..........................)

3 True or False

1. When water turns into ice, the speed of movement of its particle increases. (   )
2. Rusting of iron, is one of its chemical properties. (   )
3. Invasive species increases the number of marine animals. (   )
4. The blood in human circulatory system doesn't move in specific direction. (   )
5. Energy does not flow between 2 consumers at the beginning of the food chain. (   )
6. Cork molecules are tightly packed than iron, so it sinks. (   )
7. The air that plants need moves into leaves through tiny openings called chloroplast. (   )

4 Answer the following questions:

① Plants depend on humans' respiration waste products, while humans depend on plant waste products from the photosynthesis. Explain.

....

....

② What will happen if a liquid changes into gas?

....

....

5 Complete the following sentences by using words below:

(More – scavengers - chemical – jelly fish – decomposers - less – physical)

1. Decomposition process done by two types of living organisms, which are .... organisms and .... organisms.
2. Oil has a lower density than water, so it has .... tightly packed molecules than water.
3. When we distinguish between of perfume and vinegar color according to odor, this indicates one of the .... properties of perfume and vinegar.
4. The real food of sea turtles is the ....

Exam (2)

1 Choose the correct answer:

① Photosynthesis occurs in the chloroplasts of plant cells. Which gas is released during this process?

a. Nitrogen b. Hydrogen c. Oxygen d. Carbon dioxide.

② What might happen if the primary consumer was removed from an ecosystem?

a. There would be more food for secondary consumers.

b. The number of plants would decrease.

c. The number of plants would increase.

d. The number of secondary consumers would increase.

③ An artery ……………………..

a. pumps blood to the heart

b. pumps blood to and from the hear

c. carries blood away from the heart

d. carries blood low in oxygen

④ When salt water mixture is exposed to warm surface, ………….

a. water and salt evaporate.

b. water evaporates and the liquid salt is left behind.

c. salt evaporates and the liquid water is left behind.

d. water evaporates and the solid salt is left behind.

⑤Copper is used in making electric wires because ………………. .

a. it is easily to be shaped

b. it is a good conductor of electricity

c. it is a good conductor of heat

d. Both (a) and (b)

⑥ All the following are scavengers except…………..

a. vultures b. bacteria c. hyenas d. houseflies

2 Write the scientific term:

1. The process by which natural habitat becomes incapable of supporting its native species. (……………………..)

2. A state of matter whose particles slide past each other. (……………………….)

3. The measuring unit that is equal to the mass of onepaperclip. (……………………..)

4. A material that allows an electric current to pass through it easily.
(………………………)

5. The system that transports water, minerals and sugar throughout the plant body. (………………………)

❸ True or False

1. Roots of plants collect sunlight and carbon dioxide gas from air. (   )
2. Kilogram of water has a volume equals 1000 millilitres. (   )
3. The temperature increases by increasing the speed of moving particles. (   )
4. Light and sound are not forms of matter. (   )
5. Pollution affects food resources and animal habitats. (   )
6. When hot water vapor hits cooler air it forms steam. (   )
7. Arteries are vessels in human circulatory system that carry blood rich in carbon dioxide gas. (   )

❹ Answer the following questions:

① Carbon dioxide has no definite shape or volume.

…………………………………………………………………………………………

…………………………………………………………………………………………

② What will happen if the climate change is unsuitable for a population of one type of species?

…………………………………………………………………………………………

…………………………………………………………………………………………

❺ Complete the following sentences:

1. The movement of particles of matter increases in case of …………….. and …………… processes.
2. Any matter is made up of millions of tiny ……… that we can't see with our eyes.
3. Habitat loss is not the only decrease marine population but also it is one of the main causes of ………………
4. Scientists divided living organisms into 3 groups; producers, consumers and ……………………..
5. …………. is one of physical properties that determines whether matter will float or sink.

Exam (3)

1 Choose the correct answer:

① Leakage of oil into seawater negatively affects the ....

a. desert organisms b. marine organisms
c. forest organisms d. rivers organisms

②All the following examples belong to physical changes, except............

a. cutting a piece of paper b. melting of ice.
c. digestion of food. d. condensation of water vapor

③ Root hairs are important for the plant, ...

a. as they decrease the surface area of the roots to keep in water
b. as they increase the surface area of the roots to decrease absorption
c. as they increase the surface area of the roots to increase absorption
d. No correct answer.

④ Any increase or decrease in the number of organisms of one type of species is known as ....

a. an ecosystem b . adaptation .
c. a climate change d . a population change

⑤Desalination process means that we remove .... from water to drink it.

a. sugar. b. salt
c. oxygen gas d. hydrogen gas

⑥ The secondary consumer is considered as ....

a. a prey for primary and tertiary consumers.
b. a predator for primary and tertiary consumers.
c. a prey for primary consumer.
d. a prey for tertiary consumer.

2 Write the scientific term:

1. It is the number of organisms of one type of species live in an area. (.........................)
2. A human activity that leads to decreasing the number of fish and affecting many marine food webs. (...........................)
3. Parts of the plant that are responsible for reproduction. (.........................)
4. A tool used to measure the length of a wall. (...........................)
5. The building units of matter. (.........................)

❸ True or False

1. Phloem transports food materials downward from the leaves to other parts of the plant.

2. The speed of water vapor particles is slower than that of water particles.

3. Germs are very large organisms that can be seen with the naked eye.

4. Dandelion seeds have spines, so they stick to animal fur.

5. The ability of matter to burn and rust are considered from physical properties of matter.

6. Two equal amounts of sugar and salt can take the same space at the same time.

❹ Answer the following questions:

① Carbon dioxide has no definite shape or volume.

....

....

② What will happen if the climate change is unsuitable for a population of one type of species?

....

....

❺ Complete the following sentences:

1. Nutrients that are resulted from decomposition process and returned back to the soil, can be consumed again by ....

2. According to temperature, matter can be classified into ...... and ......objects.

3. In the Earth's polar zone, people use .... in building their home roofs to protect them from ....

4. In a food chain, the energy flows from ....consumer to a secondary consumer.

5. Decomposition process takes place on land as well as under...........

6. .... is a copy that is similar to real thing to show what it look or work like.

❻ What happens if .. ?

1. The volume of a coin if we transfer it from a cup to another cup.

....

....

Exam (4)

1 Choose the correct answer:

① The liquid matter is characterized by all the following, except that ……………..

a. its particles move faster than solid particles.

b. its particles move slower than gas particles.

c. its particles can't spread to fill up any container they put in.

d. its particles are held together more closely than solid particles.

② All the following sentences are correct about photosynthesis process, except ……………………..

a. it depends on sunlight. b. it produces glucose sugar and carbon dioxide gas.

c. it produces glucose sugar and oxygen gas. d. it occurs in plant leaves.

③ All the following are examples of physical changes of matter, except ………….

a. melting ice cream b. cutting paper

c. changing ice into water d. mixing food with acid

④ There are many ways of seed dispersal that improve plant species survival? Which way of the following can help burdock seeds?

a. floating on water b. blowing by wind

c. eaten by animals d. no correct answer

⑤ why are microplastics harmful?

a. Because they are small enough to be eaten by marine organisms.

b. Because they stay in the ocean for long time.

c. Because they kill marine animals

d. no correct answer

⑥ How can a model be helpful?

a. Models give us step-by step instructions about how to build something.

b. Models make something look better than it does in real life.

c. Models always make something smaller than it is in real life.

d. Models can help us see things that are too small or big to observe.

2 Write the scientific term:

1. It is a way of seeds dispersal that helps burdock seeds to move from place to another one. (……………………..)

2. A type of organisms that can't produce their own food by absorbing sunlight and must depend on other organisms to get energy. (……………………..)

3. The properties of matter which can be observed and measured by the changes that happen when the material interacts with other materials. (……………………..)

4. A device used to examine objects that are too small to be seen with naked eye. (……………………..)

❸ True or False

1. When water turns into ice, the speed of movement of its particles increases. (   )
2. Wood is used in handles of cooking pans, as it is a good conductor of heat. (   )
3. Rusted iron and burning wood are examples of chemical changes. (   )
4. Solids and liquids both have definite shapes. (   )
5. The transport system in plants and human move elements in one-way direction. (   )

❹ Answer the following questions:

① Coral bleaching happens when the water temperature rises.

....

....

② Particles of gasses can spread out quickly to fill up any containers they put in.

....

....

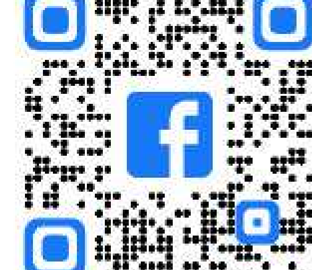
③ What are the reasons of losing habitat?

....

....

❺ Complete the following sentences:

1. According to hardness of mater, a sponge and a feather are examples of ………………. matter, while a coin and a brick are examples of …………….. matter.
2. A predator get …………….. from the prey which feeds on.
3. If climate change is suitable, the population of a species will ………………………..
4. The increase or decrease of one type of species in an area is known as ……………
5. Iron rust and burning reactions are from ………………… change.





Exam (7)

1 Choose the correct answer:

1. Coral reefs are negatively affected by………………..

a. rising water temperature only.
b. ingesting micro plastics only.
c. Both of rising temperature and ingesting micro plastics.
d. neither rising of temperature nor ingesting micro plastics.

2. During burning of wood .... energies are produced.

a. electrical and light. b. thermal and light
c. thermal and electrical d. sound and electrical

3. Hawk eats a rabbit to get energy, this means that ……………

a. hawk and rabbit are predators. b. the hawk is a predator.
c. the hawk is a prey d. the rabbit is a predator

4. Some liquids come out of a .... during its eruption .

a. Star b. wooden piece
c. volcano d. plastic piece

5. When something freezes, it changes from a ……………….. state to a ……………….. state.

a. gas – solid b. solid-gas
c. liquid – solid d. liquid- gas

6. Which seed is dispersed by floating on water?

a. burdock seed b. maple seed
c. coconut seed d. tomato seed

7. What will happen to the ice cream if it is left on a table overnight?

a. the ice cream will be a gas b. the ice cream will be a liquid
c. the ice cream will disappear d. nothing will happen to the ice cream.

8. Which of the following human activities causes the greatest destruction to the environment?

a. replanting trees b. recycling cardboard boxes
c. burning fossil fuels d. using solar energy

9.All the following happen to the particles of oil when it is cooled, except that they ……………..

a. move slower b. move faster
c. vibrate less d. come close together

10. Scientists which measure the size and shape of fossils during their research are ……………

a. cartographers b. space scientists

c. marine biologists d. palaeontologists

11. Which of the following examples can be poured and has particles that can be slide past each other?

a. Iron rod b. Milk c. Oxygen d. Chair

❷ Answer the following:

(A) Give reason for

Food webs can be destroyed due to pollution.

………………………………………………………………………………………

………………………………………………………………………………………

(B) What happens if: There is no decomposition process done on the Earth.

………………………………………………………………………………………

………………………………………………………………………………………..

❸ True or False

1. Phloem transports water and nutrients from the roots to the leaves. ( )

2. UV rays coming from the Sun, break down plastic wastes into micro plastics. ( )

3. The first link in any food chain is a consumer. ( )

4. Copper is used in making cooking pans because copper is good conductor of electricity. ( )

5. The relationships between living organisms cause the balancing of ecosystem. ( )

❺ Complete the following sentences:

1. Melting of wax is a………….. change, while burning of wood is a………. change.

2. We can use……………gas to blimps, because it is lighter than……….

3. Snails, earthworms and slugs are considered as ……………..,while vultures, crabs and cockroaches are considered as ……………

4. Particles of…………………matter can slide over each other so they take the ………….of their containers.

Exam (10)

1 Choose the correct answer:

1. A watermeleon has more matter than a grape, so it has more ……………

a. length b. volume c. mass d. width

2. Which of the following is true about particles of different states?

a. they move alike b. they can be seen c. they move freely d. they take up space

3. All the following are scavengers except …………

a. vultures b. hyenas c. bacteria d. houseflies

4. Space between are the largest in the ………………… state.

a. solid b. liquid c. gaseous d. liquid and gases

5. All the following are among the products pf photosynthesis process that are used by the plants to grow except …………………

a. sugars b. proteins c. fats d. oxygen

⑧Seeds that are dispersed by humans and animals…………………

a. can float on water **b. have bad taste**

c. have hooks or spines **d. have wing-like structures**

2 Answer the following questions:

1 Look at the opposite food chain, then answer:

A) what would happen to the frog population if the owl population suddenly decreased due to disease?

a. It would increase b. It would stay the same c. it would decrease

B) What would happen to the snail population if the owl population suddenly decreased due to disease?

a. It would increase b. It would stay the same c. it would decrease

C) Which one of the following get the energy directly?

a. Owl from plant b. Frog from owl c. owl from frog

2 Classify the following into a physical or chemical change:

a. Car rusting. (………………………………)

b. Condensation of water vapor. (………………………………)

c. Cutting an apple in halves. (………………………………)

d. Burning paper. (………………………………)

3 Write the scientific term:

1. It is a made of two or more substance that are not chemically combined. (………………………………)
2. They are any increase or decrease in the number of the organisms in an area. (………………………………)
3. They are animals that eat dead animals. (………………………………)

4 True or False

1. An unexpected change in color is a sign of a physical change. ( )
2. Air is colorless matter, so it doesn't have volume or mass. ( )
3. Iron sinks in water because it has more density than it. ( )
4. Loss of habitat causes loss of shelter, food, and water for living organisms. ( )
5. We use many different characteristics to describe objects, including size, color and hardness. ( )

5 Complete the following sentences:

1. Coral reefs are important for ………….. and ………… .
2. If a substance is warmed up, its particles will …………. , but if the matter is cooled down, its particles will ………………
3. Fungi are classified as ……………….
4. The phloem vessels carry …………….. from the leaves to all the plant parts.